MA6600 with TM2 HD AM/FM Tuner Module



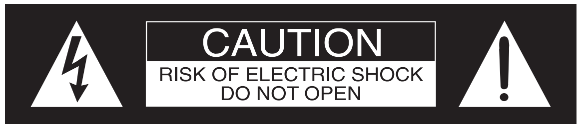
MA6600-TM2
Operation Guide

For use in the U.S.A., Argentina, Bolivia, Brazil, Canada, Chile, Columbia[1], Ecuador, Mexico, and Venezuela.

[1] Most of the Available FM Stations and all of the AM Stations

McIntosh Laboratory, Inc. 2 Chambers Street Binghamton, New York 13903-2699 Phone: 607-723-3512 FAX: 607-724-0549

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



AVIS RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING - TO REDUCE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

To prevent the risk of electric shock, do not remove cover or back. No user-serviceable parts inside.

IMPORTANT SAFETY INSTRUCTIONS!

PLEASE READ THEM BEFORE OPERATING THIS EQUIPMENT.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

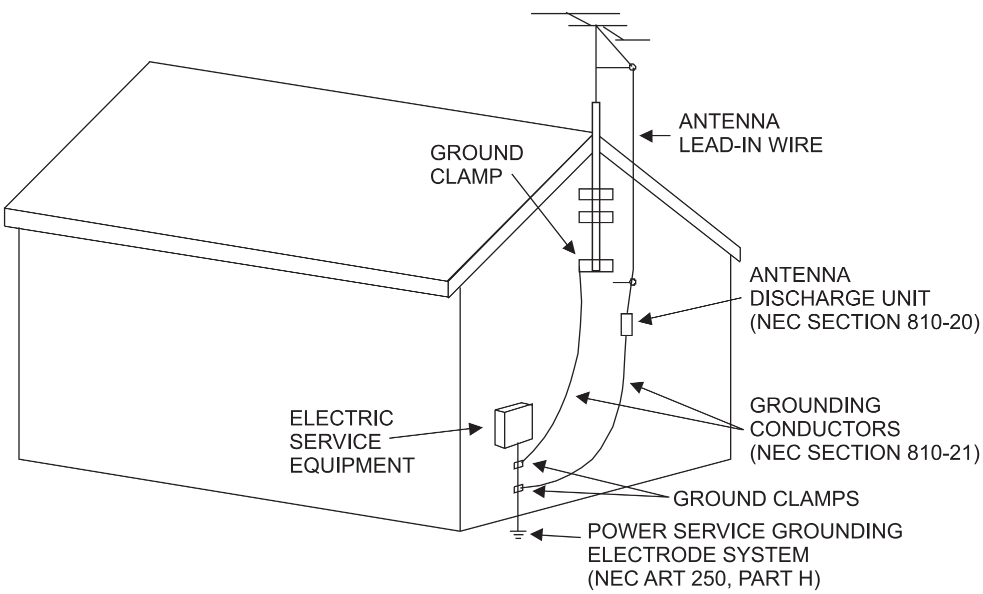


13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
16. To completely disconnect this equipment from the a.c. mains, disconnect the power supply cord plug from the a.c. receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.

Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charge. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with reguards to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, and size of ground conductors, location of antenna-discharge unit, connection to ground electrodes and requirements for the grounding electrode.

Example of antenna grounding as per National Electrical Code, ANSI/NFPA 70



Thank You

Your decision to own this McIntosh TM2 HD AM/FM Tuner Module for the MA6600 ranks you at the very top among discriminating music listeners. You now have "The Best." The McIntosh dedication to "Quality," is assurance that you will receive many years of musical enjoyment from this unit.

Please take a short time to read the information in this manual. We want you to be as familiar as possible with all the features and functions of your new McIntosh.

Please Take A Moment

The serial number, purchase date and McIntosh Dealer name are important to you for possible insurance claim or future service. The spaces below have been provided for you to record that information:

Serial Number: ____________________________________

Purchase Date: ____________________________________

Dealer Name: ____________________________________

Technical Assistance

If at any time you have questions about your McIntosh product, contact your McIntosh Dealer who is familiar with your McIntosh equipment and any other brands that may be part of your system. If you or your Dealer wish additional help concerning a suspected problem, you can receive technical assistance for all McIntosh products at:

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903
Phone: 607-723-1545
Fax: 607-724-0549

Customer Service

If it is determined that your McIntosh product is in need of repair, you can return it to your Dealer. You can also return it to the McIntosh Laboratory Service Department. For assistance on factory repair return procedure, contact the McIntosh Service Department at:

McIntosh Laboratory, Inc.
2 Chambers Street
Binghamton, New York 13903
Phone: 607-723-3515
Fax: 607-723-1917

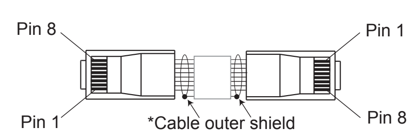
Table of Contents

General Information

1. For additional connection information, refer to the owner's manual(s) for any component(s) connected to the MA6600 Integrated Amplifier and the TM2 Tuner Module.
2. The Main AC Power going to the MA6600 and any other McIntosh Component(s) should not be applied until all the system components are connected together. Failure to do so could result in malfunctioning of some or all of the system's normal operations. When the MA6600 and other McIntosh Components are in their Standby Power Off Mode, the Microprocessor's Circuitry inside each component is active and communication is occurring between them.
3. The type and availability of tuner module(s) for the MA6600 varies from country to country. Contact your McIntosh Dealer for additional information.

RAA2 Cable Connector Information

Pin No.	Wire Color
1.	White/Orange
2.	Orange
3.	White/Green
4.	Blue
5.	White/Blue
6.	Green
7.	White/Brown
8.	Brown
	*Cable outer shield



Note: The RAA2 Connecting Cable is available from the McIntosh Parts Department:
RAA2 Antenna Cable Part No. 171844
Twenty foot, shielded 8 conductor, with a shielded RJ45 connector on each end.

Introduction

The MA6600 Integrated Amplifier has provisions for adding an optional McIntosh TM2 HD AM/FM Tuner Module for Radio Station Reception. The TM2 delivers the same exceptional performance as a stand-alone McIntosh Tuner. The TM2 is installed by your McIntosh Service Dealer. It can be added to the MA6600 at any time, usually while you wait.

Performance Features

• HD Radio for both AM and FM Station
The sound quality of a received HD Radio™ FM Broadcast with the TM2 is of "CD-Quality". This includes an extended Frequency Response and greater Stereo Channel Separation with non existing reception noise, interference and multi path. HD Radio™ AM Broadcast reception has sound quality equivalent to a good FM-Stereo Broadcast, again with no reception noise or interference.

• Multiple Programs
The HD Radio Broadcast format allows a radio station to send out multiple programs simultaneously and with the TM2 it is easy to select the desired program to listen to.

• Information Service
When tuned to a HD Radio Broadcast or an FM Broadcast Station sending RBDS (Radio Broadcast Data Service), the Front Panel Information Display of the MA6600 will indicate various text information such as Station Call Sign, Music Genre, Artist Name and Song Title when transmitted by the Radio Station.

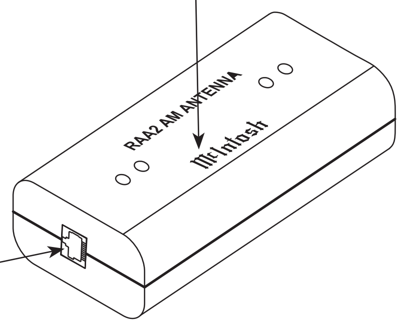
• Special FM RF Tuned Circuitry
The TM2 Tuned RF Circuitry uses a passive design, allowing for the reception of strong local FM Station Signals with overload or Cross Modulation. The highly sensitive Front End Mixer using active circuitry allows reception of even the weakest of FM Signals.

• High Dynamic Range IF FM Circuitry
The all important IF circuitry in the TM2 has two different levels of linear amplification providing optimum performance at all times with varying reception conditions.

• RAA2 External AM Antenna
The RAA2 External AM Antenna provides the perfect match to the TM2 AM Circuitry. The 20 foot (6 meter) connection cable allows placement of the AM Antenna away from electronic equipment which can produce RF Interference with weak AM signals.

• Preset Stations and Permanent Memory
Nine AM and nine FM station presets make it easy to listen to your favorite stations. Station Presets and Function Modes are retained in Permanent Memory even when AC power is switched Off.

McIntosh RAA2 External AM Antenna

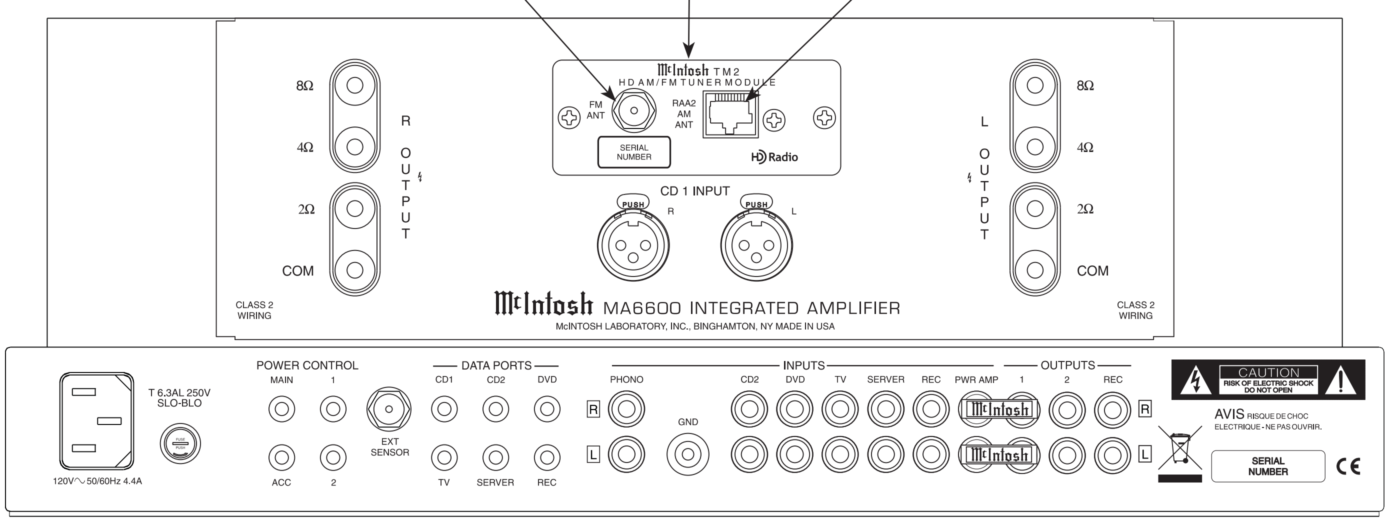


Connect to the TM2 HD AM/FM Tuner Module with the supplied shielded cable

McIntosh TM2 HD AM/FM Tuner Module

75 OHM FM ANT (Antenna) connects to an external FM Antenna or cable

AM ANT (Antenna) connector allows a McIntosh RAA2 Remote Antenna to be connected



How to Connect Antenna Components

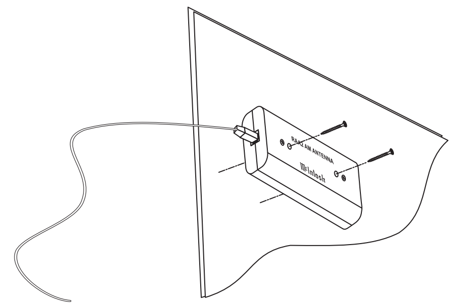
1. Using the the supplied shielded cable, connect one end into the RAA2 AM Antenna jack and the other end of the same cable into the MA6600/TM2 Tuner Module jack labeled RAA2 AM antenna

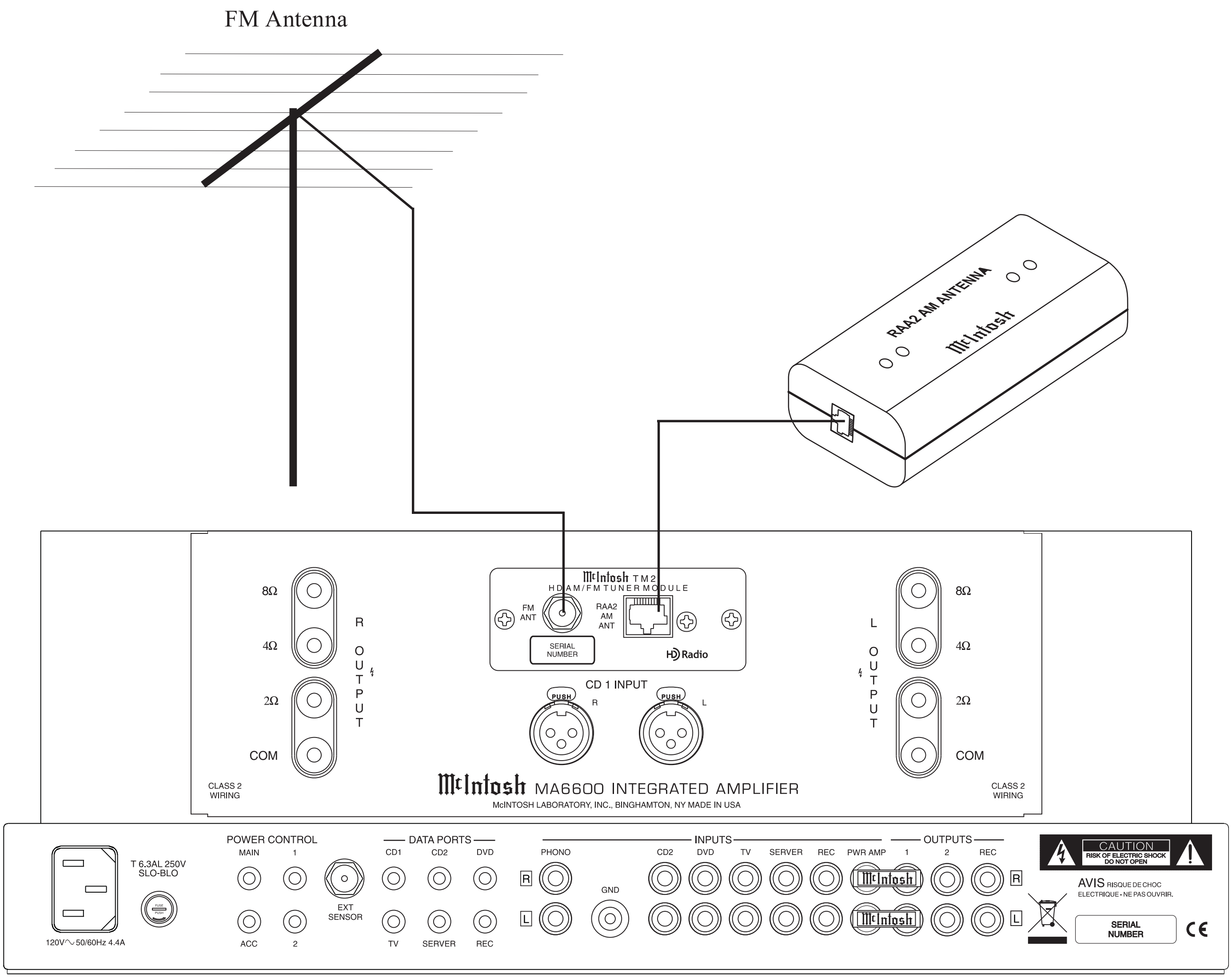
Note: If a longer length cable needs to be used between the MA6600/TM2 and the RAA2 AM Antenna, use an 8 conductor straight-thru cable with an outer shield and RJ45 connectors on each end (shielded CAT5 or CAT6 patch cable).

2. Connect a 75 ohm coax cable from a FM Antenna or cable system to the MA6600/TM2, 75 OHM FM AN-Tenna Connector.

Mounting the RAA2 AM Antenna

Tune to a station with the weakest signal and orient the RAA2 Antenna for maximum signal with minimun noise and distortion. After the location is determined, the RAA2 AM Antenna may be secured to a suitable surface by using two 6-32 1-3/4 to 2 inches (4.44 to 5.08cm) long screws, refer to the illustration to the right.





How to Operate the Tuner Setup Mode

Your McIntosh MA6600 with the TM2 installed has been factory configured for default operating settings that will allow immediate enjoyment of superb audio from AM/FM and HD Radio™ Stations without the need for further adjustments. Proceed to "How to Operate the MA6600 Tuner" at this time unless you wish to make changes to the TM2 factory default settings.

A Setup Feature is provided to customize the operating settings using the Front Panel Information Display. Refer to the MA6600 Owner's Manual page 12 while performing the following steps.

Notes: 1. If the MA6600 is currently On, proceed to step 2.
2. Making changes to the amplifier default settings are covered in the Setup Section in the MA6600 Owner's Manual starting on page 13.

1. Press the STANDBY/ON Push-button to switch On the MA6600. The MA6600 will go through a brief startup intialization with the Front Panel Information Display indicating the last used source and volume setting, this is followed by the volume setting indication starting at zero and then increasing to the last used volume setting. Rotate the INPUT Control to select Tuner FM. Refer to figure TM2-1.

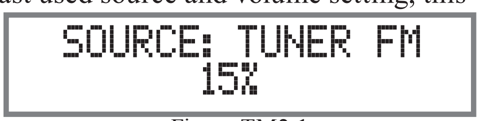


Figure TM2-1

2. Press the MONO/SETUP Push-button until the Front Panel Information Display indicates SETUP: TUNER SDK MC__._.________ firmware version, refer to figure TM2-2. Press the MONO/SETUP Push-button one more time and the Front Panel Information Display will now indicate SETUP: TUNER DSP DRI-___-_______-___ firmware, refer to figure TM2-3. These firmware version numbers identify type of operational functioning of the TM2 Tuner Model. At this time the LEDs above the MONO/SETUP and STORE/EXIT Push-buttons will be illuminated.

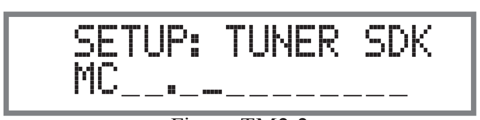


Figure TM2-2



Figure TM2-3

3. To exit from the Setup Mode, press the STORE/EXIT Push-button. The LED above the MONO/SETUP Push-button and STORE/EXIT Push-button will extinguish and the Front Panel Display will revert back to its normal display. Refer to figure TM2-1.

Default Settings

When a McIntosh Tuner Module is installed into the MA6600 the following additional Setup Settings will become available indicating the Function Name and Default Setting.

MA6600/TM2 Default Settings	
Function Name	**Setting**
TUNER SDK	MC__._.__________
TUNER DSP	DRI-___-_______-___
CLEAR PRESETS	NONE

Clear Presets

The TM2 AM/FM Tuner has three different Tuning Modes when installed into the MA6600. One of the Tuning Modes is Preset Tuning, where favorite stations are entered into memory for quick recall. Any preset station may be removed from memory at any time. There are times when it may be desirable to remove from memory all the preset stations. To accomplish this perform the following steps:

1. Press the MONO/SETUP Push-button until the Setup Mode is active. Then press the MONO/SETUP Push-button to select the Setup Menu item "SETUP: TUNER CLEAR PRESETS". Refer to figure TM2-4.
2. Rotate the TRIM ADJUST Control to select one of four choices:
   NONE (default setting, No Presets are cleared)
   AM (all AM stored Presets are cleared)
   FM (all FM stored Presets are cleared)
   All (all AM and FM stored Presets are cleared)
3. Press the STORE/EXIT Push-button to exit the Setup Mode. Proceed to "How to operate the Tuner" on the next page.

How to Operate the MA6600 Tuner

The Instructions in this TM2 Operation Guide are intended to supplement the MA6600 Owner's Manual when selecting and listening to radio stations. The McIntosh TM2 HD Radio™ AM/FM Tuner Module incorporates an advanced design AM/FM Tuner with many desirable performance features to enhance your enjoyment of radio broadcasts. The three Tuning Modes for selection of AM/FM Stations are as follows:

1. STATIONS -Allows Manual Tuning of available AM and FM broadcasts (the default setting).
2. SEEK -Automatic Tuning of available AM and FM broadcast.
3. PRESET -Selection of AM and FM stations already entered into memory.

Tuner Trim Functions

With the TM2 Tuner installed into the MA6600 there are two additional Trim Selections available.

TUNER CONTROL

The Tuning Mode of AM and FM Broadcast Stations may be changed from the default setting of STATIONS (Manual Tuning) by performing the following:

1. Rotate the TRIM SELECT Control or press the TRIM Push-button on the Remote Control until "TUNER CONTROL" appears on the Front Panel Information Display. Refer to figures TM2-4 and TM2-5.



Figure TM2-4

2. Rotate the TRIM ADJUST Control or press the LEVEL + / - Push-buttons to select either the SEEK or PRESETS Tuning Mode. Refer to figures TM2-6 and TM2-7.



Figure TM2-6



Figure TM2-7

TUNER BLEND MODE

The BLEND MODE allows selection of the different signal types received from AM and FM Broadcast Stations. Conventional Radio Broadcast Signals contain Analog Audio Information only. A HD Radio™ Broadcast Signal includes both Analog Audio Information and Digital Audio Information. The Tuners Blend Mode may be changed from the default setting of AUTO to either the ANALOG ONLY or DIGITAL ONLY audio information. In the AUTO Blend Mode the Tuner Audio Output can vary between the transmitted Analog Audio only, the transmitted decoded Digital Audio only or a blending of the two. This blending produces the best possible sound quality even with varing reception conditions. To change from the default setting of AUTO perform the following:

1. Rotate the TRIM SELECT Control or press the TRIM Push-button on the Remote Control until "TUNER BLEND MODE" appears on the Front Panel Information Display. Refer to figure TM2-8 on the next page.

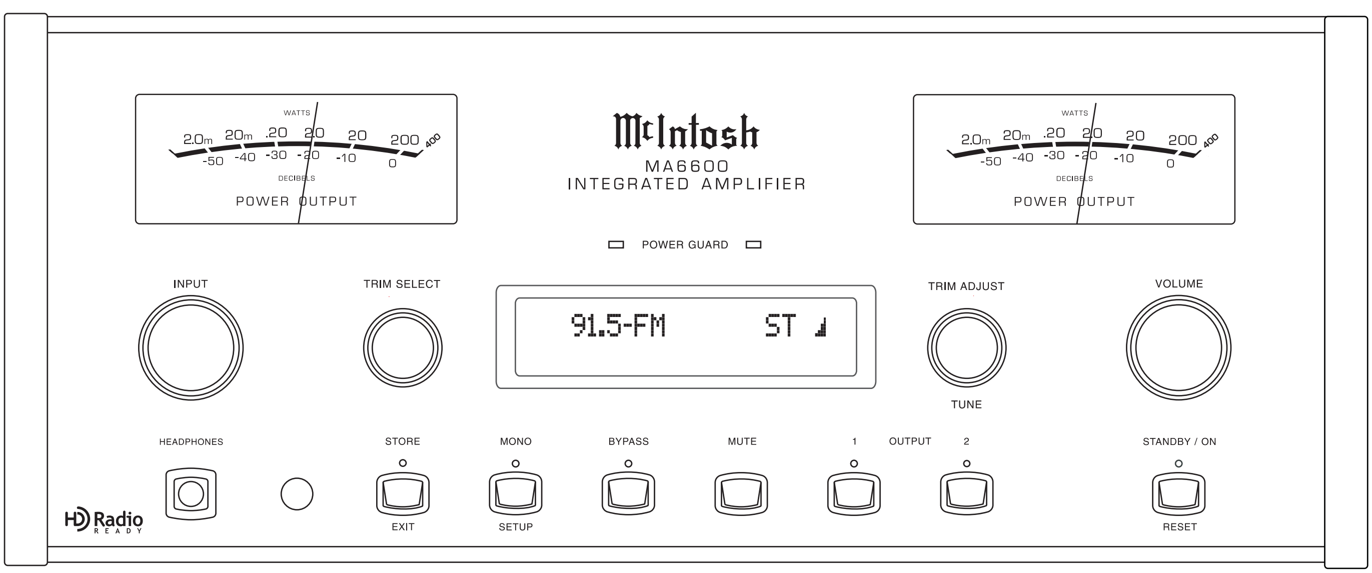


Figure TM2-5

How to Operate the MA6600 Tuner, con't

2. Rotate the TRIM ADJUST Control or press the LEVEL + / - Push-buttons to select either the ANALOG ONLY or DIGITAL ONLY Blend Mode. Refer to figures TM2-9 and TM2-10.

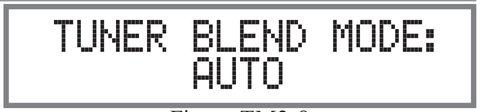


Figure TM2-8



Figure TM2-9



Figure TM2-10

AM or FM Band Selection

Rotate the MA6600 Front Panel INPUT Control to select either TUNER FM or TUNER AM. The AM or FM Push-buttons on the Remote Control may also be used to select the desired broadcast band. Refer to figures TM2-11, TM2-12, TM2-17 and TM2-5 (on the next page). Several seconds after the AM or FM Band is selected the Front Panel Information Display will change to indicate the frequency the tuner is currently tuned to. Refer to figures TM2-13 and TM2-14.



Figure TM2-11



Figure TM2-12

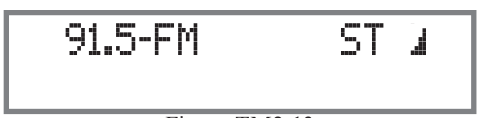


Figure TM2-13



Figure TM2-14

Stereo/Mono Mode

The MA6600 Tuner Module Automatically switches between Stereo and Monaural Broadcasts. When a Stereo Broadcast is received, the Front Panel Information Display indicates the Stereo Mode by the letters "ST" on the right side. Refer to figure TM2-15. To change the reception mode to MONO press the Front Panel MONO Push-button or the MODE Push-button on the Remote Control to combine left and right stereo signals to a Monophonic signal. The LED above the MONO Push-button will illuminate. Refer to figures TM2-16 and TM2-5 (on the next page).

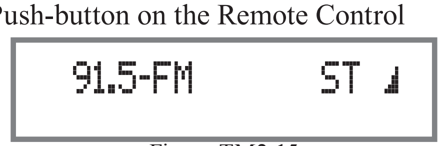


Figure TM2-15



Figure TM2-16

Manual Tuning

The default Tuning Mode for the MA6600 is STATIONS (Manual Tuning). After having selected the FM or AM Broadcast Band, rotate the TUNE (TRIM ADJUST) Control clockwise or counterclockwise to find the desirable radio station. Refer to figure TM2-5. The Remote Control may also be used for manual tuning of stations by using the Up▲ or Down▼ directional Push-buttons. Refer to figure TM2-15.

The Signal Strength Indication (to the right of "ST") displayed on the Front Panel Information Display can assist in orienting the Antenna for maximum signal. Refer to figure TM2-18 (minimum signal strength) and TM2-19 (maximum signal strength).

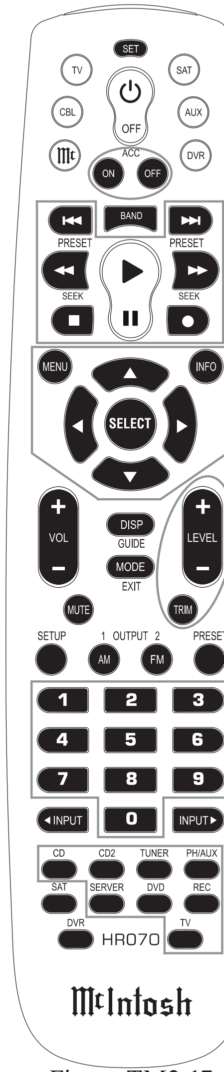


Figure TM2-17

Preset Tuning

The MA6600 allows for presetting 9 AM and 9 FM Radio Stations into memory for rapid recall without having to manually tune through unwanted stations.



Figure TM2-18



Figure TM2-19

<u>Creating Presets</u>

Tune to a station to be entered into memory either by Manual Tuning (STATIONS Tuning Mode) (see above) or Automatic Tuning (SEEK Tuning Mode) and then perform the follow steps:

Note: If there are no Presets Assigned and the MA6600 is in the PRESET Tuning Mode, the Front Panel Information Display will indicate "NO PRESETS AVAILABLE". Refer to figure TM2-20.

1. Momentarily press and release the Front Panel STORE Push-button. The Front Panel Information Display will indicate "PRESET 1: AVAILABLE", which is the first of 9 Preset Numbers to be assigned. Refer to figures TM2-21 and TM2-5. The Station to be entered into memory may also be assigned to a different Preset Number (2-9) by rotating the TUNE (TRIM ADJUST) Control to select the desired Preset Number.



Figure TM2-20



Figure TM2-21

Notes: 1. Presets are automatically assigned in order from 1 to 9 unless a different Preset Number is selected.

2. To exit without entering a new Preset into memory, momentarily press the Front Panel EXIT (STORE) Push-button.

2. To enter the station into menory press and hold in the STORE Push-button until the Front Panel Information Display indicates "PRESET STORED" then release the STORE Push-button. Refer to figure TM2-22. The just entered Station Preset will be assigned Preset Number 1 (or the Preset number you selected) and is displayed on the Front Panel Information Display. Refer to figure TM2-23.



Figure TM2-22

3. Assign additional station Presets by performing steps 1 and 2.

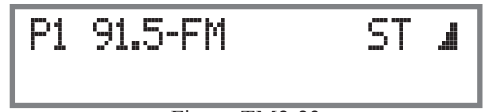


Figure TM2-23

Note: If all 9 Presets are assigned and the STORE Push-button is pressed, the display will indicate the station selected for Preset Number 1. Refer to figure TM2-24 .

4. To verify the Station Preset(s) just entered into memory, rotate the Front Panel TUNE (TRIM ADJUST) Control; using the Remote Control press the NEXT ⏭ or BACK ⏮ Push-buttons to cycle through and confirm your preset assignments.



Figure TM2-24

<u>Clearing Presets</u>

5. Select the Station Preset to be removed by using the Front Panel TUNE (TRIM ADJUST) Control or using the Remote Control NEXT ⏭ or BACK ⏮ Push-buttons.
6. Press and hold in the Front Panel STORE Push-button until the Front Panel Information Display indicates "PRESET CLEARED" then release the STORE Push-button. Refer to figure TM2-25.



Figure TM2-25

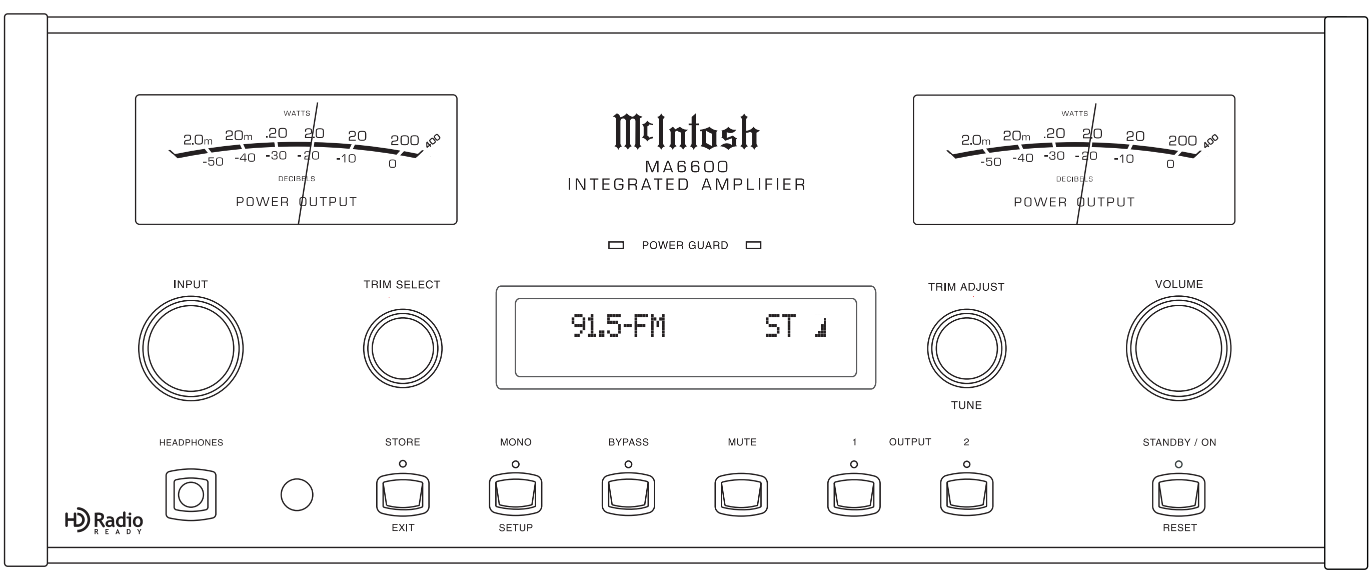


Figure TM2-5

How to Operate the MA6600 Tuner, con't

Notes: 1. To exit without clearing a Preset from memory, momentarily press the Front Panel EXIT (STORE) Push-button.

2. If you wish to replace an already assigned Station Preset with another radio station, it is not necessary to clear the Preset first, just enter in the new station for that Preset. The new station will automatically replace the previously assigned station.

7. To clear any additional Station Presets perform steps 5 through 6 again.

With the creation of Preset Stations, use the Tuner Control Trim Function to Select the Front Panel PRESET Tuning Mode. To select a Preset Station rotate the Front Panel TUNE (TRIM ADJUST) Control for the desired station. Using the Remote Control, Presets are selectable with the NEXT ⏭ or BACK ⏮ Push-buttons. Direct access is also possible by entering the number of Preset using the 1-9 numeric push-buttons on the Remote Control.

Automatic Tuning

The SEEK Tuning Mode (Automatic Tuning) searchs the AM or FM Broadcast Bands for available stations. To use the SEEK Tuning Mode perform the following steps:

1. Use the Tuner Control Trim Function to Select the Front Panel SEEK Tuning Mode.
2. Rotate and release the TUNE (TRIM ADJUST) on the Front Panel, clockwise to go up the Broadcast Band or counter clockwise to go down the Broadcast Band. The MA6600 Tuner will automatically stop on the next station. The Remote Control SEEK Up▲ or Down▼ may also be used.

Note: If the signal strength of a station is very weak SEEK Tuning will not stop.

RBDS Text Information

The MA6600 Tuner supports display of RBDS (Radio Broadcast Data Service) text from many FM radio stations. When available from a FM Broadcast Station, the text information appears on the second line of Front Panel Information Display. It may also scroll from right to left, this is for information not possible to display at the same time. This information may include some or all of the following:

A. Station Call Letters and/or Frequency.
B. Type of Program and/or music format.
C. Name of the Artist.
D. Name of the Song.

The Type of Program and/or music format may be recalled at any time by pressing the DISPlay Push-button on the Remote Control, refer to figure TM2-17 on page 10. Also refer to figures TM2-26, TM2-27, TM2-28 and TM2-29 for examples of RBDS Text Information.

Note: Reception of a weak broadcast signal sending out Text Information might result in an interuption of the text information and/or incorrect characters displayed. If this occurs, try re-orienting the FM Antenna and/or replacing the antenna with an improved reception model. See your McIntosh Dealer for assistance.

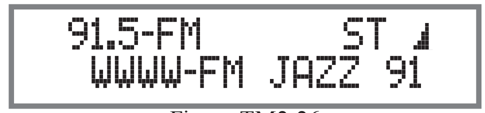


Figure TM2-26



Figure TM2-27

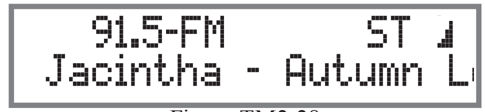


Figure TM2-28



Figure TM2-29

HD Radio

Tuning to a HD Radio Station on the MA6600 is the same as tuning to any AM or FM Broadcast. Once the MA6600 is tuned to a HD Radio Station Broadcast several benefits are immediately apparent. First, there is the improvement in sound fidelity and sonic imaging. Second, many stations will offer the choice of listening to Multiple Programs. Lastly, most HD Stations send out Text Information which is displayed on the Front Panel of the MA6600.

When tuned to a HD Broadcast Station, the MA6600 Front Panel Display will indicate the incoming signal is in HD. Refer to figure TM2-30. Shortly there after the Texting information will appear on the Front Panel Information Display. Refer to figures TM2-31 and TM2-32. The Front Panel Display will also indicate the number of the program, selected with a dash and number to the right of "FM" (or "AM"). When the station is sending out more than one program, the Front Panel Display will also indicate an arrow to the right side of "HD" when the



Figure TM2-30



Figure TM2-31



Figure TM2-32

first program is selected and there are additional programs above the program currently selected. An additional arrow on the left side of “HD” will appear when there are programs available below the program currently selected. Refer to figures TM2-32, TM2-33, TM2-34 and TM2-35.



Figure TM2-33



Figure TM2-34

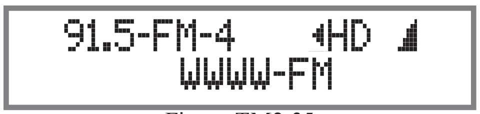


Figure TM2-35

To select HD Station Programs perform one of the methods below, after the Front Panel Display indicates HD with an arrow. Refer to figure TM2-31.

<u>Manual HD Program Selection</u>

1. Rotate the TUNE (TRIM ADJUST) Control to select the desired program from the HD Broadcast or press the Right▶ or Left◀ directional Push-buttons on the Remote Control.

   Note: A HD Station Program may be asigned to a Preset (stored in memory) by pressing and holding in the STORE Push-button until the Front Panel Information Display indicates “PRESET STORED”, then release the STORE Push-button.

<u>Selecting HD Program Preset</u>

2. Select the HD Program Preset by using the Front Panel TUNE (TRIM ADJUST) Control (set to PRESET Selection) or using the Remote Control NEXT ⏭ or BACK ⏮ Push-buttons.

<u>Automatic Selection of HD Program</u>

3. Rotate and release the TUNE (TRIM ADJUST) Control (set to SEEK Selection), clockwise to go up the Broadcast Band or counter clockwise to go down the Broadcast Band. The MA6600 Tuner will automatically stop on the next HD Station Program. The Remote Control SEEK Up▲ or Down▼ may also be used.

FM, AM and HD Station Presets					
Preset Number	Frequency	Call Letters	HD Program Number	Music Format	City
FM1					
FM2					
FM3					
FM3					
FM4					
FM5					
FM6					
FM7					
FM8					
FM9					
AM1					
AM2					
AM3					
AM4					
AM5					
AM6					
AM7					
AM8					
AM9					

FM HD Specifications

Sensitivity
-85dBm

Signal To Noise Ratio
85dB

Frequency Response
± 1dB from 20 to 20,000Hz

Harmonic Distortion
0.1%

Stereo Separation
80dB

FM Analog Specifications

Useable Sensitivity
1.6uV (15.2dBf)

50dB Quieting Sensitivity
1.8uV (16.2dBf)

Signal To Noise Ratio
Mono: 75dB
Stereo: 72dB

Frequency Response
± 1dB from 20 to 13,000Hz

Harmonic Distortion
Mono: 0.1%
Stereo: 0.4%

Channel Selectivity
65dB Adjacent Channel
74dB Alternate Channel

Stereo Separation
35dB

AM HD Specifications

Signal To Noise Ratio
85dB

Frequency Response
20 to 15,000Hz

Harmonic Distortion
0.1%

Stereo Separation
75dB

AM Analog Specifications

Sensitivity
550uV/m

Signal To Noise Ratio
45dB

Frequency Response
+ 0, - 6dB from 100 to 3,500Hz

Harmonic Distortion
0.25%, 80% Modulation

Selectivity
50dB Adjacent Channel

General Specifications

FM Tuning Range
87.5MHz - 107.9MHz

FM Channel Spacing
200kHz

FM Antenna Input
75 ohms, Type "F" Coax connector

AM Tuning Range
530kHz - 1710kHz

AM Channel Spacing
10kHz

AM Antenna Input
Balanced, RJ45 connector
(for use only with supplied McIntosh RAA2 Remote AM Antenna)

RAA2 Connection Cable
20 foot (6.09m) 8 conductor straight-thru cable with an outer shield and RJ45 connectors on each end (shielded CAT5 or CAT6 patch cable)

RAA2 Remote AM Antenna Overall Dimensions
Width is 6 inches (15.24cm)
Height is 2-1/2 inches (6.35cm)
Depth is 1-1/2 inches (3.81cm)

TM2 and RAA2 Weight
1 pounds (0.4 kg) net, 2 pounds (0.8 kg) in shipping carton

Shipping Carton Dimensions
Width is 12-1/4 inches (31.12cm)
Depth is 9-1/4 inches (23.5cm)
Height is 5 inches (12.7cm)

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